

SITE NUMBER: CW-L2-01A
LOCAL NAME: Campola Springs
WRIA:

NORTH COAST OFF CHANNEL SITE INVENTORY DATA

RIVER SYSTEM: Clearwater **DATE:** 11/1/94 **OBSERVER:** Nettnin

CHANNEL TYPE: Terrace Channel

TRIBUTARY TO: Clearwater R.

SITE LOCATION: LB @ RM: 3.6 (WDFW)

LEGAL DESCRIPTION: NE¼, NW¼, SEC 18, T24N, R12W

	<u>UPPER END</u>	<u>LOWER END</u>	<u>RIVER TEMP</u>
<u>WATER TEMP:</u>	8.5°	8.5°	7.5°

FLOW (CFS): 0.25 - 0.50

SUBSTRATE TYPE: Muck, with clay and gravel below the county road. Gravel is more then likely from the road fill and repairs.

SITE SIZE: **Length-** 380 m (includes main LB trib).
 Width- Water surface = 0.3 - 1.0 m
 Channel = 0.7 - 1.0 m
 Depth- 8 - 10 cm **Max-** 38 cm

WATER SOURCE: Springs and wetlands

DIRECTIONS TO SITE: Heading north on Highway 101. Turn right 0.9 miles beyond mile post 146 onto the Clearwater Rd. Proceed north for about 3.5 miles to address 4237. This is the Campola residence and Campola Springs crosses the county road just beyond the driveway.

FISH ACCESS AND CURRENT USE:

- The stream egresses into a large deep eddy with an abundance of woody debris for cover.
- The stream subsurfaces in the lower twenty meters.
- There may also be a passage problem at the culvert under the county road.
- A coho fry was observed below the culvert in May of 1988.
- On 11/9-10/94 four minnow traps were set and fished. The results were three coho and eight sculpin.

FLOODING POTENTIAL: Low. The lower channel will submerge during high water. The land owner verbally indicated that during very heavy freshets, the culvert can not handle the flow.

LANDOWNER: John Campola and other private individuals.

GPS: (decimal degrees, Datum WGS84):

Lower project: N47.58931, W124.29245 - 11/13/02

COMMENTS & RECOMMENDATIONS:

- This trib was observed in May of 1988 by Randy Young. Due to the lower reach being subsurface, he apparently decided to wait until high water to make his complete survey observations. It appeared to have slipped by.
- His observations were: temp, 7° C; flow, 0.5 cfs; fish, 1 coho.
- Chris Byrnes observed this stream during summer flows and he estimated it at about 0.3 cfs.
- My first observation, just after heavy rains, I estimated the flow at 0.5 - 0.7 cfs. The water was tannic and turbid. Two weeks later, it was still tannic colored but with much less turbidity.
- Four minnow traps were set in this system and they fished for about 30 hours. The results were: The upper main channel trap caught one coho, the trap set in the middle of the main channel caught two coho

and five sculpin, the trap set below the culvert did not catch anything, and the trap set in the main left bank trib caught three sculpin. The coho were in the 110 - 130 mm range.

- The wetlands that are the sources for the main branches of this trib have been impacted in the past by wood wastes and fill from ditching.
- At the present time a landowner on the upper left branch has a metal salvage operation; Everything was clear of the stream. It may be warrantable to express concern, to the owner, on the possibility of petroleum spills next to the stream.
- John Campola is very enthusiastic to do a project on this stream.

DATE: 8/15/95

OBSERVER: Nettnin

- Landowner excavated a pond next to this channel.
- Installed four plank weirs to back water the pond and allow access.
- Material used: 300 ft. Of 2 X 6 planks
200 sq. Ft. of geotextile cloth
10 lbs. Of nails
10 T posts
20 3/8 in. U-bolts and associated hardware

DATE: 11/8 & 11/15/95

OBSERVER: Nettnin

- 11/8/95 project was totally backwatered by the Clearwater River.
- 11/15/95 the project is looking good except length of the lower weir was increased by the removal of woody debris below it. May have to add a rock weir.
- No fish were observed.

DATE: 4/3/96

OBSERVER: Nettnin

Rock and debris were added to the channel below the lower wier where channel has degraded. Wier appears passable at the present flow.

DATE: 12/11/96

OBSERVER: Nettnin, Powell, Darrow

Lowest weir appears passable but could be improved on by adding rock. Landowner increased pond size without permission this summer. No vegetation other than grass has been planted on pond bank. Observed some rises in the pond. Good flow.

DATE: 4/22/97

OBSERVER: Nettnin

Weir number 3 has leaks on both ends but has significant water flowing over the control. If it appears to be a problem at low flows, we will fix it this summer.

DATE: 10/8/97

OBSERVER: Nettnin

Upper most weir has been raised by the land owner, causing a potential barrier to juvenile coho. Both upper weirs have small leaks at ends of weirs.

DATE: 10/22/97

OBSERVER: Nettnin

Removed the boards on the upper weir to eliminate the potential barrier to juvenile coho.

DATE: 3/12/98

OBSERVER: Nettnin

Minor leakage on upper two wiers. Observed risers in the pond.

DATE: 10/7/98

OBSERVER: Darrow/Nettnin

Weirs at the lower end of pond had developed numerous leaks over the last couple of seasons. Camp crew was used to dig out banks where leaks were occurring. A mixture of crushed gravel and clay silt was tamped into problem areas. This was fortified with clay-filled jute bags and overlaid with medium/large river rock and cobble. Notches had an estimated 0.25-0.33 cfs flow when finished. An extra weir was added at the lower end to compensate for the removal of a log that was acting as a lower control. Cottids were present in the weir area and some large trout were observed rising on the pond (these trout may have been planted). Stream remained watered throughout the dry period.

DATE: 5/5/99

OBSERVER: Nettnin

Project was inspected and found to be in good condition.

DATE: 11/8/99

OBSERVER: Nettnin

All weirs appeared tight. There were some modifications to possibly raise the pond level - dam boards were removed.

DATE: 7/12/00

OBSERVER: Nettnin

All the weirs were okay. The low flow notch on the upper control has been closed. Will remove prior to fall migration. Some of the landscaping logs have migrated to the weirs but are not causing problems.

DATE: 10/18/00

OBSERVER: Nettnin

Everything looked fine. Removed the dam boards from the upper weirs (the landowners season modification).

DATE: 4/4/01

OBSERVER: Nettnin

Project is in good condition. Did not observe any fish.

DATE: 9/11/01

OBSERVER: Nettnin

Removed the boards from weir five that are annually placed by the land owner. The rise in the upper most weir is above designed elevation when additional boards are put in place and may form a fish barrier.

DATE: 4/10/02

OBSERVER: Nettnin

Boards on weir five are back in place. They do not block downstream migration but may be a barrier to any up migration.

DATE: 11/13/02

OBSERVER: Nettnin

Removed the extra boards the landowner puts on the upper control. The water flowing around the end of the control has caused some eroding. The left bank end of the control below is leaking. Repairs will be scheduled for the summer of 03.

GPS: (decimal degrees, Datum WGS84):

Lower project: N47.58931, W124.29245 - 11/13/02

DATE: 2/27/03

OBSERVER: Nettnin

Owner has installed dam boards on the upper weir once again.

DATE: 9/24/03

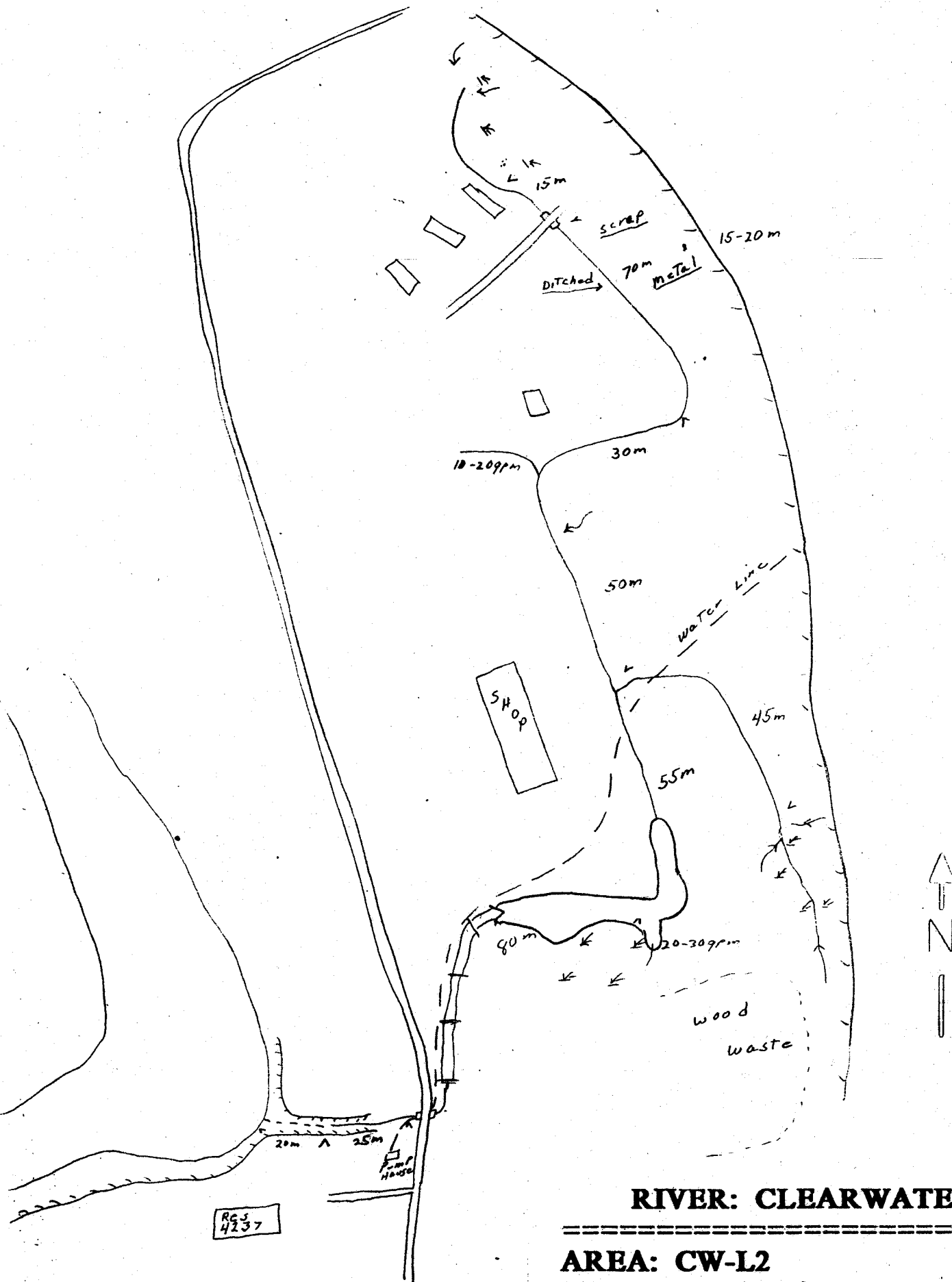
OBSERVER: Nettnin

Sealed number two weir and backfilled. Did not have time to raise the height of the weirs. Channel watered.

DATE: 10/21/03

OBSERVER: Nettnin

Project was inspected and found to be in good condition.
Removed dam boards from upper weir.



RIVER: CLEARWATER

AREA: CW-L2

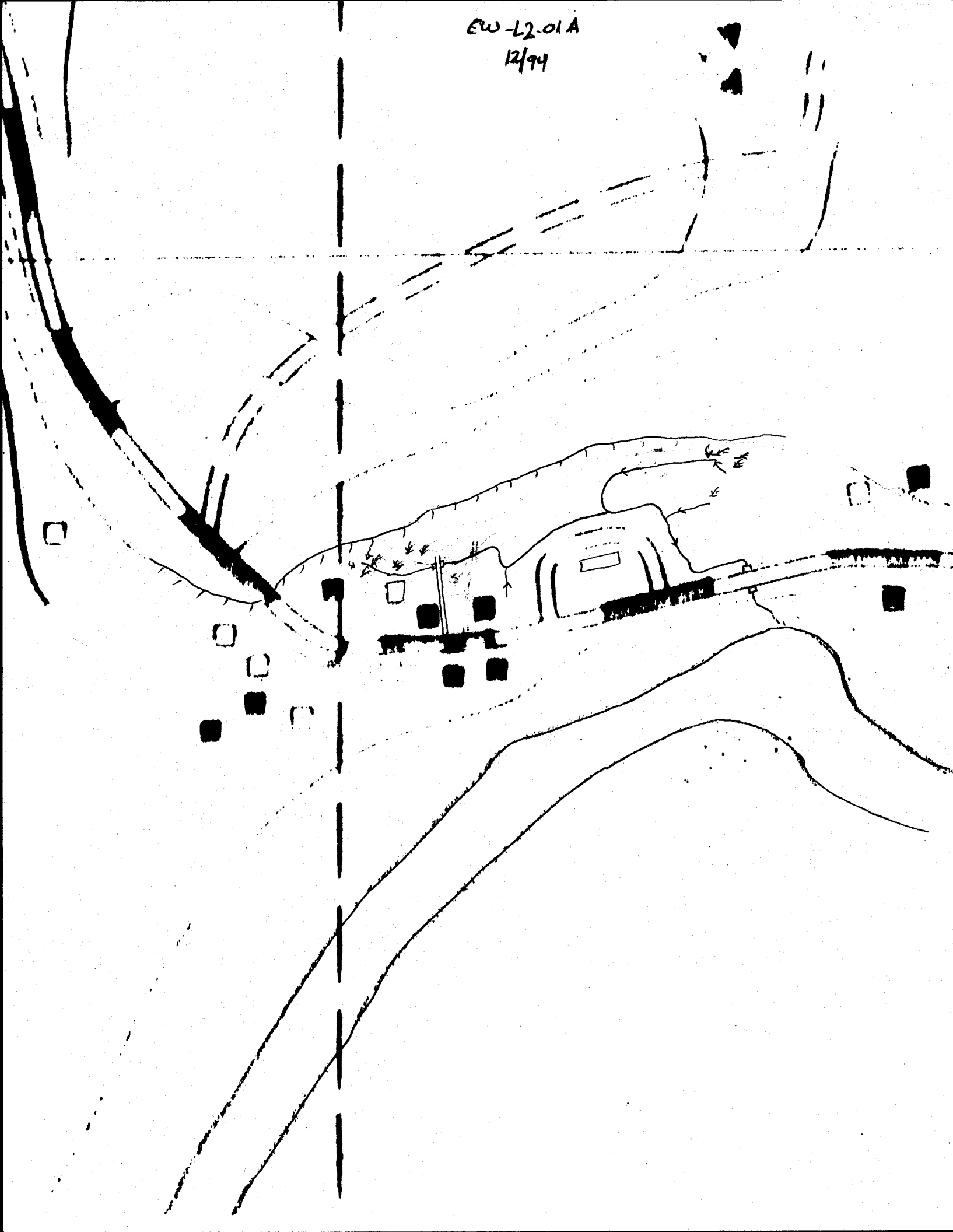
SITE: CW-L2-01A

NAME: CAMPOLA SPR.

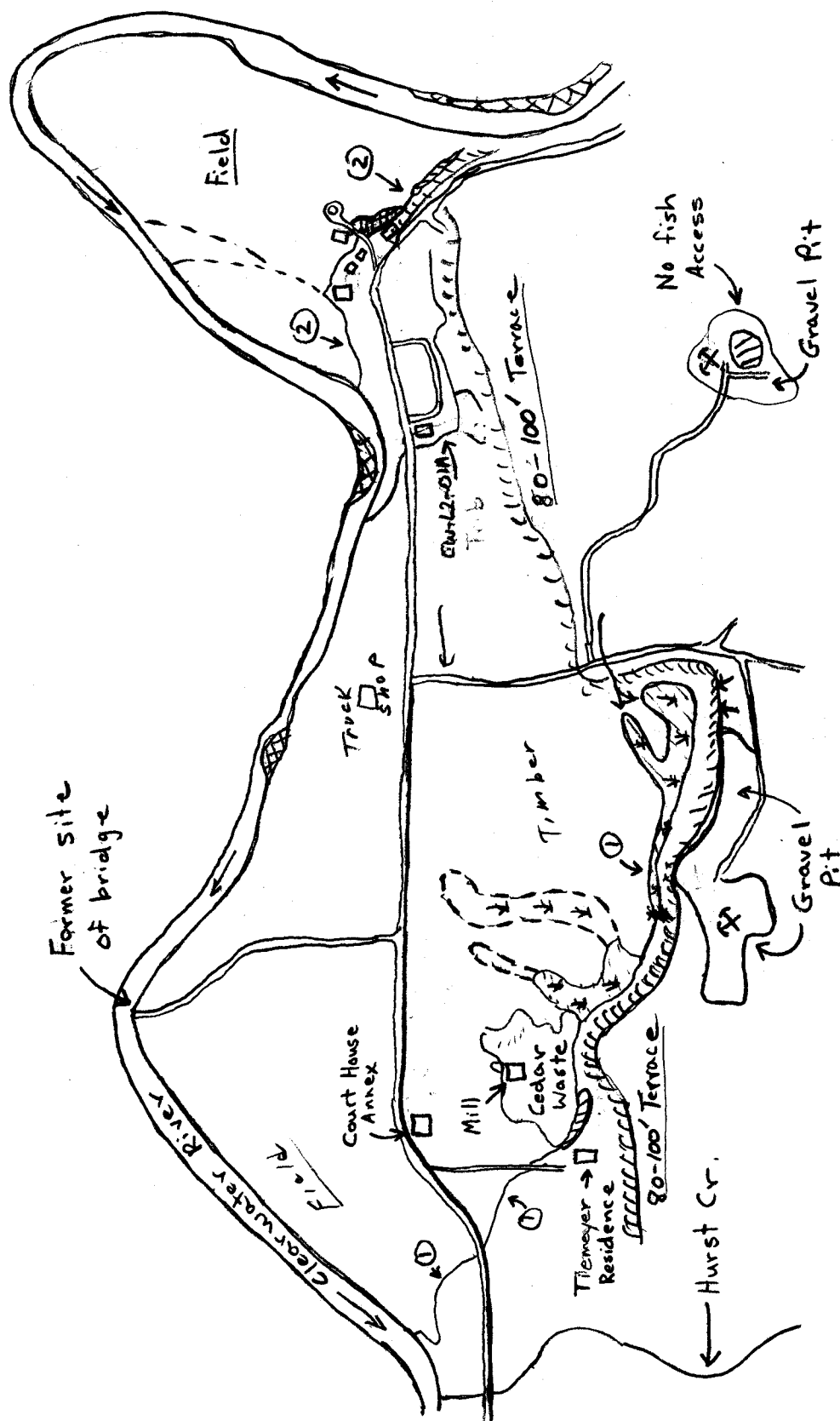
Date: 10/94 Revised 12/99

EW-L2-01A

12/94



12/94



Clearwater River Site: CW-L2

